



REF3AWIAT IN PEDIATRIC DOSES

[Document subtitle]



[DATE]

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HELP PEOPLE AND ALLAH WILL HELP YOU

Anti-Pyretics

*paracetamol → 10-15 mg / kg / dose

Cetal 250 syrup	Wt/4 cm	Every 6- 8h
Cetal , pyral drops	2 drops / kg	Every 6- 8h
Tempra , abimol syrup	Wt /2 cm	Every 6- 8h
Perfalgan(1000mg/100ml)	*<10kg→ 3/4cm / kg *>10kg→ 1.5cm / kg	Every 6- 8h

*Ibuprofen → 10-15 mg / kg / dose

Flabu drops	2 drops / kg	Every 6- 8h
Brufen , Ultrafen syrup	Wt /2 cm	Every 6- 8h
Contafever n syrup	Wt/4 cm	Every 6- 8h
Marcofen sup	(100,300,500)mg	Every 6- 8h

*Combination () ibuprofen & paracetamol

Megafen syrup	Wt /2 cm	Every 6- 8h
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*Declophenac → 0.5 -1 mg / kg / dose

Dolphin k,Cataflam drops	2 drops / kg	Every 6- 8h
Catafly syrup (10mg/5ml)	Wt /3 cm	Every 6- 8h
Dolphin sup	(12.5 , 25 mg)	Every 12h
Declophen amp	1 cm / 20 kg	Better once

*ketoprofen → 0.5 -1 mg / kg / dose

Ketofan susp	Wt /3 cm	Every 6- 8h
Ketofan amp (100mg/2ml)		

Anti-biotics

***Ampicillin sulbactam**

- 150 mg/kg/day IV
- Dose is doubled in meningitis
- 25-50 mg/kg/day PO

Unasyn, Unictam, Sigmacyn susp (250mg/5ml)	Wt/2 cm Wt/3 cm	Every 12 h Every 8 h
Unasyn, Unictam vial 375 mg 750 mg 1500 mg	+ 5cm saline → Wt cm + 5cm saline → Wt/2 cm + 5cm saline → Wt/4 cm	Every 12 h

***Amoxicillin clavulanic**

- 25-50 mg / kg / day → dose of Amoxicillin
- **Augmentin, Curam, E-moxclav**(156mg/5ml)susp → 125mg amoxicillin
- **Augmentin, Curam, E-moxclav**(312mg/5ml)susp → 250mg amoxicillin
- **Augmentin, Curam, Emoxclav, Megamox**(457mg/5ml) → 400mg amoxicillin
- **Megamox**(228mg/5ml) susp → 200mg amoxicillin
- **Hibiotic** (460mg/5ml) susp → 400mg amoxicillin

156	Wt / 2 cm	Every 8 h
228	Wt / 3 cm	Every 8 h
312	Wt / 4 cm	Every 8 h
457,460	Wt/ 4 cm	Every 12 h

***Azithromycin (Macrolides)**

- 12 – 15 mg / kg / day → for 3 days
- 20 mg / kg / day → Typhoid → for 7 days

Zithromax , Zithrokan , Xithrone (200mg/5ml)	Wt/4 cm	Single dose before meal
Zithrokan (100mg/5ml)	Wt/2 cm	Single dose

***First Generation Cephalosporines**

- 50mg /kg/day

Duricef,Curisafe (125mg/5ml) susp	Wt cm	Every 12 h
Duricef,Biodroxil (250mg/5ml) susp	Wt /2 cm	Every 12 h
Biodroxil (500mg/5ml)susp	Wt / 4 cm	Every 12 h

***Second Generation Cephalosporines**

1. Cefaclor

- 20-40mg/kg/day

Ceclor,Bacticlor (125mg/5ml)susp	Wt /2 cm	Every 12 h
Ceclor,Bacticlor (250mg/5ml)susp	Wt /4 cm	Every 12 h

2. Cefuroxime

- 50-100mg/kg/day

Cefumax (250mg/5ml)susp	Wt/2 cm	Every 12 h
Zinnat (125mg/5ml)susp	Wt cm	Every 12 h
Zinnat vial	250,750,1500 mg	Every 12 h

***Third Generation Cephalosporines**

1. Ceftriaxone

- 50 mg/kg/day
- 100mg/kg/day in meningitis

Cefaxon,Ceftriaxone,Wintriaxon,Xoraxon 500mg	+5cm saline → Wt/2	Single/day
Cefaxon,Ceftriaxone,Wintriaxon,Xoraxon 1000mg	+5cm saline → Wt/4	Single/day

2. Cefotaxime,Ceftazidime

- 100mg/kg/day

Cefotax.Claforan,Fortum 250mg vial	+5cm saline → Wt cm	Every 12h
Cefotax.Claforan,Fortum 500mg vial	+5cm saline → Wt/2 cm	Every 12h
Cefotax.Claforan,Fortum 1000mg vial	+5cm saline → Wt/4 cm	Every 12h

3. Cefixime

- 8-14mg/kg/day

Suprax,Ximacef (100mg/5ml) susp	Wt /4 cm	Every 12h
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***Fourth Generation Cephalosporins**

- 50-100mg/kg/day → iv

Maxipime, Wincef 500mg vial	+5cm saline → Wt/2	Every 12 h
Maxipime, Wincef 1000mg vial	+5cm saline → Wt/4	Every 12 h

***Aminoglycosides**

- If used more than 7 – 10 days → renal function should be done & follow up is a must

1. Gentamicin

- 4mg/kg/day → IV

Gentamicin 80mg/2ml	1cm+19 cm glucose 5 % → 2cm/kg over 30 min	Every 24 h
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2. Amikacin

- 15 mg/kg/day

Amikin 100mg/2ml	1cm + 4cm saline → 1.5cm/kg	Every 24 h
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***Carbapenems**

- Meronem has a menigitic & pseudomonal dose of 40 mg/kg/dose q8h,, but Tinam has NOT.
- Tinam may cause Convulsions
- Tinam is incompatible with Amikin, Gentamicin & Diflucan
- Meronem → 20 mg/kg/dose q8h
- Tinam → 20-25 mg/kg/dose q12h

Meronem 500 mg vial	+25 cm saline → Wt cm IV over 30 min	Every 8 h
Meronem 1000mg vial	+25 cm saline → Wt/2 cm IV over 30 min	
Tinam 500 mg vial	+25 cm saline → Wt cm IV over 30 min	Every 12h

***Co-trimoxazole**

(trimethoprim+sulphamethoxazole)

- 4mg+20mg /kg/day)

Septrin,Sutrim,Septazole susp (40mg+200mg/5ml)	Wt/2 cm	Every 12 h
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***Vancomycin**

- Bacteremia → 10 mg/kg/dose IVI over 1h
- Meningitis → 15 mg/kg/dose IVI over 1h

Vancocin 500 mg vial	+100cm saline → 2cm/kg	Every 8 h
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***Benzathine penicillin G**

- 50000 unit/kg

Depo-pen vial	<27 kg → 1/2 vial >27 kg → vial	Every 3-4 weeks
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*** Linezolid**

- 10mg/kg/dose
- G+ve bacteria e.g. MRSA, and glycopeptide-resistant enterococci
- Some Anerobes e.g. C perfringens, C difficile, and Bacteroides fragilis
- Treatment is usually continued for 10-28 d
- Linezolid is not used as empiric treatment
- not active against: Common Gram negative organisms, Enterobacteriaceae and Pseudomonas aeruginosa

Averozolid susp(100 mg / 5 ml)	Wt/2 cm	Every 8 h
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Anti-tuberculous

*first line drugs

1. Isoniazid (INH)

- 10-15mg/kg/day

Isocid , Inhibix tab	50 mg	Single daily dose
Isocid forte tab	200 mg	Single daily dose

2. Rifampicin or Rifampin

- 10-20mg/kg/day on empty stomach

Rimactane,Rifam,Rifamox (100mg/5ml)	Wt/2 cm	One hour Before breakfast
Rifampicin, Rifampin cap	150 mg	One hour Before breakfast
Rifampicin, Rifampin, Rimactane cap	300 mg	One hour Before breakfast

Rimactazid tab	150 mg isoniazid+ 300 mg rifampicin	Single daily dose
Rimactazid pediatric tab	60 mg isoniazid+ 60 mg rifampicin	Single daily dose

3. Pyrazinamide

- 20-40mg/kg/day

Piraldina , Pyrazinamide tab	500 mg	Single daily dose
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Rimcure pediatric tab	30 mg isoniazid+ 60 mg rifampicin+ 150 mg pyrazinamide
Rimcure tab	75 mg isoniazid+ 150 mg rifampicin+ 400 mg pyrazinamide

***Alternative drugs**

1. Streptomycin (aminoglycoside)

- 20-40mg/kg/day → IM

Streptomycin vial 1000mg	+ 5cm saline→ 1cm/10kg	Single daily
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2. Ethambutol

- 15-20mg/kg/day → oral

Etibi tab	500 mg	Single daily
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Anti-viral

***Acyclovir**

- 10-20mg/kg/dose
- Duration of therapy → 14 days (in localized infections) or 21 days (in disseminated or CNS infections)

Zovirax 250mg/5ml vial	1cm+9cm saline → 4cm/kg IVI over 1 h	Every 8 h
Zovirax 200mg/5ml syrup	Wt/2 cm	Every 8 h
Zovirax tab	200, 400 mg	Every 8 h

Anti-fungal

***Nystatin**

- 100,000 unit/dose → oral
- Duration → 7-10 days

Mycostatin , Fungistatin , Nystatin drops	1 ml (droper)	Every 6 h
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***Miconazole**

- 30mg/dose → infants
- 60mg/dose → children
- Duration → 7-10 days

Daktarin , Miconaz , Micoban oral gel(120mg/spoon)	1/4 spoon → infants 1/2 spoon → children	Every 6 h
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***Fluconazole**

- LD = 12-25 mg/kg (we use 12)
- MD = 6-12 mg/kg/dose (we use 6) IVI over 30 min q24h

Diflucan (25mg/5ml) syrup	Wt/2 cm	Every 12 h
Diflucan IVI (100mg/50ml)	LD→ 6cm/kg+6cm/kg glucose 5% Over 30 min MD→ 3cm/kg+3cm/kg glucose 5% Over 30 min	Every 24 h

Anti-protozoal

***Metronidazole**

- Oral → 50mg/kg/day → Amoeba → 10 days
→ 25 mg/kg/day → Giardia → 7 days
- Infusion → LD → 15mg/kg/dose
→ MD → 7.5 mg/kg/dose

Flagyl , Amrizole (125mg/5ml) susp	Amoeba → <i>(double Wt)/3 cm</i> Giardia → <i>Wt /3</i> cm	Every 8 h
Flagyl infusion (500mg/100ml)	LD → <i>3cm/kg</i> MD → <i>1.5cm/kg</i>	Every 8 h

***Diloxanide furoate**

- 20mg/kg/day
- Duration → 10 days

Furazol , Dilozole susp	<i>Wt/3</i> cm	Every 8 h
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Anti-malarial

*Chloroquine phosphate

- 3 days treatment :

 1. Day 1 → initial dose : 10mg/kg
 - After 6 h : 5mg/kg
 2. Day 2 → one dose : 5mg/kg
 3. Day 3 → one dose : 5mg/kg

Chloroquine (80mg/5ml) syrup	Initial dose → double (Wt/3) cm Then → Wt/3 cm	As above
Chloroquine tab	150 mg	As above

Anti-helmintic

*Mebendazole

- Safe from first day of life & in pregnancy & lactation

Antiver , Vermin (100mg/5ml) susp	Oxyuris → 5ml before breakfast Askaris & Ankylostoma → 5ml	Every week for 3 weeks Every 12 h for 3 days
Antiver , Vermin 100mg tab	The same but one tab	The same

***Flubendazole**

- Same as mebendazole

Fluver , Fluvermal (100mg/5ml)	Same as mebendazole	Same as mebendazole
Fluver , Fluvermal 100mg tab	Same as mebendazole	Same as mebendazole

***Albendazole**

- Not safe in first 2 years of life & in pregnancy & lactation
- 400mg/dose

Alzental , Bendax (100mg/5ml)susp	Oxyuris→ 20ml before breakfast Askaris & Ankylostoma→ 20ml	Every week for 3 weeks Every 24 h for 3 days
Vermizole (200mg/5ml) susp	Oxyuris→ 10ml before breakfast Askaris & Ankylostoma→ 10ml	Every week for 3 weeks Every 24 h for 3 days
Alzental , Bendax , Vermizole 200mg tab	Oxyuris→ 2 tab before breakfast Askaris & Ankylostoma→ 2 tab	Every week for 3 weeks Every 24 h for 3 days

*Praziquentel

- Bilharziasis → 40mg/kg single dose in middle of fatty meal repeated after 1 week, after 1 month & after 6 months
- Strongloids & H.nana → 25mg/kg single dose

Epiquantel (600mg/5ml)	Bilharziasis → wt/3 cm Strongloids & H.nana → Wt/4 cm	Single dose
Praziquentel, Distocid	600 mg tab	Single dose

Corticosteroids

*Short Acting

- Duration → 4-6 h

1. Hydrocortisone

- Parenteral → 5-10mg/kg/dose – IV or IM
- Oral → 2mg/kg/day

Solu-cortef vial, Hydrocortisone amp (100mg/2ml)	IM → 1cm/10kg IV → vial + 10cm saline → Wt/2 cm	Every 6 h
Hydrocortone tab	10 , 20 mg	Every 6 h

2. Prednisone or Prednisolone

- Oral → 2mg/kg/day

Predsol (5mg/5ml)	Double Wt/3 cm	Every 8 h
Predsol forte (15mg/5ml)	Double Wt/6 cm	Every 8 h
Hostacorten tab	5 mg	

***Long Acting**

- Duration → 8-12 h

1. Dexamethasone

- Parenteral → 0.25-0.5mg/kg/dose – IV or IM
- Oral → 0.1-0.2mg/kg/day

Dexamethasone , Epidron , Fortecortin (8mg/2ml) amp	IM → 1cm/10kg IV → 1cm+3cm saline → Wt/4 cm	Every 12 h
Phenadone . Apidone (0.5mg/5ml) syrup	Wt/3 cm	Every 8 h

***Inhalation Corticosteroids**

1. Beclomethasone

- 100mcg/dose

Beclotide , Beclostone inhaler (50mcg/puff) (through the mouth for persistent asthma)	2 puffs	Every 6-8 h
Beconase spray (50mcg/puff) (through the nose for allergic rhinitis)	1-2 puffs	Every 12 h

2. Budesonide

- 100-200mcg/dose

Pulmicort Turbuhaler (100,200mcg/puff) (through the mouth for persistent asthma)	1 puff	Every 12 h
Pulmicort nebulization solution (250,500mcg/2ml)	250 → 1cm/5kg 500 → 1cm/10kg	

Rhinocort spray (50mcg/metered dose) (through the nose for allergic rhinitis)	1-2 puffs	Every 12 h
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3. Fluticasone

- 50-100mcg/dose

Flixotide inhaler (50mcg/puff) (through the mouth for persistent asthma)	1-2 puffs	Every 12 h
Flixonase spray (50mcg/metered dose) (through the nose for allergic rhinitis)	1-2 puffs	Every 12 h

Sedatives & Hypnotics

- Sedatives → relieves anxiety without impairing consciousness
- Hypnotics → induces sleep

***Chloral hydrate**

- 25-50 mg/kg/dose
- Short term use only (before CT)
- Onset within 10-15 min
- May cause bradycardia – Monitor HR

Chloral (500mg/5ml) syrup	Wt/2 cm	Single dose
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Anticonvulsant & Antiepileptic

*Diazepam

- LD = 0.3 – 0.5 mg/kg/ dose
- MD = 0.1 – 0.2 mg/kg/dose as needed usually q 2-4 h

Valium , Neuril amp (10m/2ml)	1cm + 4cm saline → ٣. شرطة انسولين/كيلو الان ثم ١. شرطة انسولين/كيلو/٤ ساعه
Diazepam rectal tubes	5 mg , 10 mg

*Phenobarbital

- LD: 20 mg/kg IV slowly over 10-15 min, with refractory seizures add 5 mg/kg doses, up to a total of 40 mg/kg
- MD = 3-4 mg/kg/dose q24h IV, IM, PO or PR (q12h probably unnecessary)

Sominaletta amp (40 mg/ml)	1cm + 4 cm saline → Double Wt cm now , then Wt/2 cm	Every 24 h
Sominaletta Syrup (15 mg/ 5 ml)	Wt cm	Every 24 h
Sominaletta tab	15 , 60 mg	Every 24 h

***Phenytoin**

- LD = 15-20 mg/kg/IVI over 30 min
- MD = 4 - 8 mg/kg/IVI q 12 h
- NOT used in central line – NOT used IM (extravasation & IM → necrosis)

Epanutin , Phenytoin (250mg/5ml) amp	1cm+9cm saline → 3-4cm /kg now over 30 min, then Wt cm	Every 12h
Epanutin , Ipanten (30mg/5ml) susp	Wt cm	Every 12h

***Midazolam**

- Sedative dose
 - Shots → 0.05-0.15 mg/kg as needed, usually q 2-4 h IVI over 5 min
 - intranasal & sublingual route → 0.2 – 0.3 mg/kg/dose
 - IVI → 0.01-0.06 mg/kg/h ($0.06 \times 24 \times \text{weight}$) = ($1.44 \times \text{weight}$)
- Anticonvulsant dose
 - LD = 0.15 mg followed by Maintenance IVI = 0.06-0.4 mg/kg/h

Dormicum , Midathetic amp (5mg/ml)	LD → 1cm + 4cm saline → 10 شرطة بسزجة انسولين/كيلو Maintenance IVI → 1cm + 4cm saline → 1.5 X Wt cm تضاف على محليل اليوم
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***Sodium Valporate**

- 20-30mg/kg/day

Convulex drops(300mg/ml) (10mg/drop)	1-2 drops	Every 12 h
Depakine syrup (288.2mg/5ml)	Wt/4 cm	Every 12 h

Inotropic Drugs

*Cardiac Glycosides

1. Digoxin

- LD → 30-50 mcg/kg IV, IM, Oral by digitalization as follow:
 - 1/2 dose initially
 - 1/4 dose after 8 h
 - 1/4 dose after another 8 h
- Maintenance dose → 5-10 mcg/kg/day divided every 12 h

Lanoxin amp (0.5mg/2ml)	<p>2cm + 8cm glucose 5 % →</p> <p>LD →</p> <ul style="list-style-type: none"> • Wt/2 cm initially • Wt/4 cm after 8 h • Wt/4 cm after another 8 h <p>MD → Wt/10 cm every 12 h</p>
Lanoxin pediatric elixir (50mcg/ml) (oral)	<p>LD →</p> <ul style="list-style-type: none"> • Wt/2 cm initially • Wt/4 cm after 8 h • Wt/4 cm after another 8 h <p>MD → Wt/10 cm every 12 h</p>

*Sympathomimetic Catecholamines

1. Adrenaline

- 0.01 – 0.03 mg/kg/dose → IV (Resuscitation)

Adrenaline amp (1mg/ml)	1 cm + 9 cm saline → 1cm / 10 kg
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2. Dopamine

- 2 – 5 mcg/kg/min → Renal dose
- 5 – 10 mcg/kg/min → Inotropic dose
- 10 – 20 mcg/kg/min → Vaso-constrictor

Dopamine amp (200 / 5ml)	10mcg/kg/min → ٣٦ وحدة انسولين/كيلو تستكمل حتى ٢٤ سم جلوكوز %٥ وعطى بمعدل ١ سم / الساعة
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3. Dobutamine

- 2-25 mcg/kg/min IVI

Dobutrex amp (250 / 5 ml)	10mcg/kg/min → ٢١ وحدة انسولين/كيلو تستكمل حتى ٢٤ سم جلوكوز %٥ وعطى بمعدل ١ سم / الساعة
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Anti-arrhythmic Drugs

*Drugs for Brady-arrhythmia

1. Atropine

- IV (over 1 min) or IM: 0.01-0.03 mg/kg/dose q10-15min; Maximum total dose of 0.04 mg/kg
- ET: 0.01-0.03 mg/kg/dose immediately followed by 1 mL NS
- PO: begin with 0.02 mg/kg/dose q4-6h, may increase gradually to 0.09 mg/kg/dose

Atropine amp (1mg/ml)	1cm+9cm saline → 0.1 cm /kg
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*Drugs for supraventricular tachyarrhythmias

1. Verapamil

- 0.1-0.2 mg/kg/dose → IV over 2 min

Isoptin amp (5mg/2ml)	1cm + 9cm saline → Wt/2 cm
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2. Propranolol

- Oral → 0.25 mg/kg/dose q6h → Then ↑ as needed to max of 3.5 mg/kg/dose q6h
- IV → 0.01 mg/kg/dose q6h → Then ↑ as needed to max of 0.15 mg/kg/dose q6h

Inderal 10 mg Tab	القرص يحل في ١ سم ماء مقطر ويعطى ربع الوزن	Every 6h
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Anti-hypertensive Drugs

*TTT of hypertensive crisis

1. Nifedipine

- 0.25-0.5 mg/kg/dose → sublingual or oral

Epilat , Adalat	10 mg ,20 mg	Repeated every 30-60 min if needed
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2. Furosemide

- 2mg/kg/dose → IV or IM

Lasix amp (20mg/2ml)	1cm+9cm saline → Wt cm	Every 12 h
Lasix tab (40mg)	1/2 tab + 10 cm sterile water → Wt/2 cm	Every 12 h

*TTT of non emergency hypertension

1. Captopril

- 0.01 – 0.05 mg/kg/dose Up to 0.5 mg/kg/dose q12h

Capoten 25 gm tab	1/2 tab + 12.5 cm sterile water → شرطة / كيلو	Every 12 h
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***Osmotic Diuretics**

1. Mannitol 20 %

- 5-10 ml/kg → IV (Over 30min)
- Rapid reduction of increased intracranial pressure & reduction of cerebral mass in case of edema

Mannitol 20 % (500ml bottle)	5-10 ml / kg	Every 6 h for 2-3 days
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Nasal decongestants

*Local (nasal)

1. Oxymetazoline

Afrin ped , iliadin merck ped	1-2 drops	Every 12 h
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2. Xylometazoline

Otrivin ped , Balkis ped , Rhinex ped	1-2 drops	Every 8 h
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- These drops used in → 3 months – 6 years
- Adult drops → after 6 years
- Before 3 months use → lyse , physiomer , otrivin baby saline nasal drops

*Systemic (oral)

1. Decongestant + Antihistamine

Sine up , Balkis syrup	Wt/3 cm	Every 8 h
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2. Decongestant + Antihistamine + Antipyretic

Congestal syrup	Wt/3 cm	Every 8 h
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Cough Suppressants

*Herbal Suppressants

Sina dry , Balsam , Herba cough syrup	< 1 year → 2.5 cm ≥ 1 year → 5 cm	Every 8 h
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*Chemical Preparations

Cough cut , Sinecod syrup (good with asthma)	Wt/3 cm	Every 8 h
Tussivan N syrup Tusscapine syrup	Wt/3 cm	Every 8 h
Sinecod , Selegon drops	1 drop / kg / day	Before sleeping

*Suppositories for dry cough

Selegon supp	1 supp → 10kg	Before sleeping
Coughseed supp	<2years → infantile ≥2years → children	Before sleeping

Mycolytic Expectorant

*Herbal Preparations

➤ < 1 year → 2.5 cm

➤ > 1 year → 5 cm

➤ صباحاً وعشراً

Sinuc syrup (mild)

Sina-wet , Bronchicum syrup(moderate)

Broncho syrup (strong)

*Chemical Mycolytic

Bisolvon , Solvin , Ambroxol , Ultrasolve	Wt/3 cm	Every 8 h
Mucosolvin , Bronchoprop syrup		
Bisolvon , Solvin , Ambroxol drops	1 drop/kg	Every 8 h
Osipect , Allvent syrup (Mycolytic + Expectorant + B2 agonist)	Wt/3 cm	Every 8 h

Bronchodilators

*Selective B2 agonist

1. Salbutamol

- 0.1-0.3mg/kg/dose PO q6-8h
- 0.1-0.5 mg (0.02-0.1 mL)/kg/dose q2-6h via nebulizer
- 100-200mcg/dose → inhalation

Ventolin , Vental , Farcoline , Salbovent syrup (2mg/5ml)	Wt/4 cm	Every 6-8 h
Ventolin , Vental inhaler(100mcg/puff) Ventolin diskus (200mcg/puff)	1 puff	Every 6-8 h
Ventolin , Farcolin nebulizer solution (5mg/ml)	0.5cm + 2.5cm saline	Every 6-8 h

2. Terbutaline

- 0.1-0.2mg/kg/day → oral
- 200mcg/dose → inhalation

Aironyl , Bricanyl syrup (1.5mg/5ml)	Wt/4 cm	Every 8 h
Bricanyl inhaler (200mcg/puff)	1 puff	Every 8 h

***Anticholinergic drugs**

1. Ipratropium

- 75-175 mcg via jet nebulizer q6-8h
- 25 mcg/kg/dose via nebulizer q8h

Atrovent inhaler Combivent inhaler	1-2 puff	Every 6 h
Atrovent , Combivent (250 ,500 mcg/2ml) Nebulization solution	• 250 →(1cm/5kg) +2cm saline • 500 →(1cm/10kg) +2cm saline	Every 6 h

***Methylxanthine derivatives**

• Theophylline

- LD: 8 mg/kg IVI over 30 min or PO
- MD (8-12h Later): 1.5-3 mg/kg/dose PO or IV q8-12h

Aminophylline (125,250 mg/5 mL) Amp		Every 8 h
Minophylline , Etaphylline , Epicophylline (100mg/5ml)	1cm / 10kg	Every 8 h

***Caffeine Citrate**

- LD: 20-25 mg/kg IV over 30 min or PO
- MD: 5-10 mg/kg/dose q24h IV slowly or PO
- Idiopathic Apnea of Prematurity

Caffeinospire (20 mg/ml) vial	LD → Wt cm MD → Wt/4 cm	Every 24 h
Caffeinospire (20 mg/ml) oral solution	The same above	Every 24 h

Asthma Controllers

*Inhaled corticosteroids

- As before

*Long acting B2 agonist

- Salmeterol
 - 25-50mcg/dose → inhalation

Serevent , Metrovent inhaler (25mcg/puff)	1 puff	Every 12 h
Serevent , Metrovent discus (50mcg/puff)		
Seretide discus,inhaler (100,250,500) (corticosteroid+salmeterol)	1 puff	Every 12 h

*Leukotriene Modifiers

- Montelukast
 - **2 months – 6 years** → **4 mg** (sachets)
 - **6 years – 15 years** → **5mg** (chewable tabs)
 - **> 15 years** → **10mg** (swallowed tabs)

Singular (4mg) sachet	1 sach	Once daily at night
Singular , Montekal chew tab (5mg)	1 chew tab	Once daily at night
Montekal , Clear air tab(10mg)	1 tab	Once daily at night

Drugs for Hyperacidity

*Antacids

Maalox , Mucogel , Epicogel susp	<2years → 5 cm >2years → 10-15 cm	Every 6-8 h before eating
Maalox , Acicone chewable tab	For older children → 1 tab	Every 6-8 h

*H2 receptors antagonists

1. Ranitidine

- 2 mg/kg/dose PO q8h (max. 3 mg/kg q8h)
- (Term) 1.5 mg/kg/dose q8h IV slow push
- (Preterm) 0.5 mg/kg/dose q12h IV slow push

Zantac amp(50mg/2ml)	1cm+12cm saline → Wt/2 cm	Every 8-12 h
Zantac tab	150 , 300 mg	Every 8 h

2. Famotidine

- 0.25-0.5 mg/kg/dose IV q24h
- 0.5-1 mg/kg/dose PO q24h

Antodine (20mg/2 mL) amp	1cm+9cm saline → Wt/2 cm	Every 24 h
Antodine tab	20 , 40 mg	Every 24 h

Antiemetic Drugs

1. Domperidone

- 0.3 mg/Kg/dose

Motinorm ,Motilium Susp(5mg/5ml)	Wt/3 cm	Every 8 h
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2. Ondansetron

- 8 – 15 kg → 2mg/dose
- 15 – 30 kg → 4mg/dose
- > 30 kg → 8 mg/dose

Danset , Zofran , Danofran amp	4 , 8 mg	Every 12 h
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3. Trimebutine

- 5 – 10 mg/kg/day
- Mainly in GERD

Gast-reg susp	Wt/3 cm	Every 8 h
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Spasmolytic & Antiflatulant

*For neonates & young infants

Pedia water , Grip water syrup	2.5 – 5 cm	Every 6-8 h before feeding
Simethicone , Baby rest drops	2 drops/kg/dose	Every 6-8 h before feeding

*For children > 2 years

Viceralgine , Buscopan syrup	Half Wt/3 cm	Every 8 h
Viceralgine amp	1cm → 20 kg	Up to 4 times/day
Buscopan amp	1cm → 40 kg	Once daily

Antidiarrheal drugs

Aqua ream z , Zinc origin syrup	< 6 months → 2.5 cm ≥ 6 months → 5 cm	Once daily For 10-14 d
Hydrosafe , Rehydro zinc pack		
Antinal , Streptoquine	<ul style="list-style-type: none"> • Late infancy & early childhood → 5 cm • Late childhood → 10 cm 	Every 8 h

Laxative drugs

Duphalac , Lactulose syrup	Wt/4 cm	Every 12 h
Laxomag susp	Wt/2 cm	Once before sleeping
Picolax , Normalax drops	1 drop/kg → max 15 drops	When needed
Glycerine sup	700 mg → <2 years 1400 mg → >2 years	When needed

Antihistamines

➤ From first day of life

Fenestil drops	1 drop / kg /day	Every 12 h
Fenestil syrup	Wt / 4 cm	Every 12 h

➤ > 6 months of life

Zyrtec drops	1 drop / kg	Every 24 h before sleeping
Zyrtec , Histazine , Cetrak syrup	Wt/2 cm	Every 24 h before sleeping

➤ > 1 year of life

Claritine syrup	Wt/2 cm	Every 24 h before sleeping
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➤ > 2 years of life

Ebastine syrup	Wt/2 cm	Every 24 h before sleeping
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Avil retard amp (45mg/2ml)	1 cm → 40 kg	Every 12 h
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- All Antihistaminic are contraindicated in BA & Acute bronchitis except **Claritine & Ebastine**

Hormonal Therapy

1. Thyroid hormone (L-thyroxine)

- **10-15 mcg/kg/day** → *neonatal* period
- **8-10 mcg/kg/day** → *infancy*
- **4-6 mcg/kg/day** → *childhood*

Eltroxin tab	50 , 100 mcg	Every 24 h
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2. Insulin

- Rapid acting insulin (regular)
 - DKA → IVI at a rate of 0.1 unit / kg / h until glucose level of 300mg/dl then discontinue infusion & give insulin subcutaneous in dose of 0.2 – 0.4 unit/kg every 6-8 h for 24 h
 - Management of ordinary case → 0.5-1 unit/kg/day , 1/3 of dose is regular insulin & 2/3 is intermediate insulin

Actrapid human insulin	40 , 100 units/ml
Humulin R human insulin	40 , 100 units/ml
Humulin R human insulin pen fill	100 units/ml

- Intermediate acting insulin

Monotard human insulin	40 , 100 units/ml
Humulin N human insulin	40 , 100 units/ml
Humulin N human insulin pen fill	100 units/ml

3. Antidiuretic hormone

- Desmopressin
➤ 0.1-0.2 mg

Minirin tab (0.1 , 0.2) mg	1-2 tab	Once daily before sleeping
Minirin nasal spray (10mcg/puff)	1-2 puffs	Once daily before sleeping

Vitamins and Minerals

1. Vitamin C

- Prophylactic → 25 - 35 mg/day
- Therapeutic → 100-200mg/day

Cevilene drops (100mg/ml)(5mg/drop)	<ul style="list-style-type: none"> • Prophylactic → 5 drops • Therapeutic → 10 drops 	Once daily Every 8 h
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2. Vitamin D

- Prophylactic → 400iu / day
- Therapeutic → 3000-5000 iu / day orally for 3 weeks
→ 600,000 iu/dose-IM – once

Vidrop (100iu/drop)	4 drops	Once daily
Pedical syrup. (400iu + 50 mg ca /5ml)	5 cm	Once daily
Decal B12 syrup , Vitacal syrup , Calcical syp. (1000u/5ml)	5-10 cm	Every 8 h
Devarol-S amp (600,000u/ml)	Amp	Once not repeated

3. Vitamin K

- Prophylactic → 1 mg → IM → once
- Therapeutic → 5-10 mg → IM , IV

Konakion MM pediatric amp. (2mg/0.2ml)	1/2 amp	At birth
Konakion amp (10mg/ml)	1/4 – 1/2 amp	Every 12 h

4. Vitamin B complex

Beco- C or Medivit syrup	5 cm	Prophylactic → once daily Therapeutic → Every 8 h
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5. Multivitamins

Bebe-vit drops	Prophylactic → 5-10 drops Therapeutic → 1/2 -1 droper	Once daily Every 12 h
Fruital, Polvital, Totavit syrup	5 cm	Once daily

6. Iron

- Prophylactic → 2mg/kg/day
- Therapeutic → 6 mg/kg/day

Hydroferrin drops (50 mg/ml)	Prophylactic → 1/4 droper Therapeutic → 0.6 droper/10kg	Once daily Every 12h
Ferose syrup (50mg/5ml)	3cm / 10kg	Every 12h

7. Calcium

- Oral dose → 40-80mg/kg/day
- IV dose → 100-200mg/kg/day

Pedical , Cal-D-B12 syp (50mg/5ml)	Wt/2 cm	Every 12 h
Ca gluconate amp. 10% (100mg/ml)	<ul style="list-style-type: none"> • Maintenance dose = 0.5 - 1 ml/kg • In hypocalcaemia = 1 – 2 ml/kg 	Every 6 h

8. Magnesium

- Resuscitation (Pulseless Torsades) → 25-50 mg/kg IV/intraosseous rapid infusion
- Hypomagnesemia → 25-50 mg/kg IV over 30-60 min; q8-12h for 2-3 doses

Magnesium sulphate 50% (500mg/ml)	0.1 cm/kg	Every 8-12 h
Magnesium sulphate 10% (100mg/ml)	0.5 cm/kg	Every 8-12 h

9. Potassium

- Oral dose → 2-4 mEq/kg/day

Potassium syrup. 15% (10mEq/5ml)	Wt/3 cm	Every 8 h
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Eye medications

• Antibiotics

Tobrin eye drops	1-2 drops	Every 6 h
Tobrex eye ointment		Once daily b4 sleeping

• Decongestants

Prisoline or Nostamine E/N drops	1-2 drops	Every 6 h for 4 days
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• Anti-allergic

Alomide or Epichrome eye drops	1-2 drops	Every 8 h
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• Corticosteroids

Isopto-Maxidex eye drops	1-2 drops	Every 6 h
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• Corticosteroids+ antibiotics

Tobradex , Isopto-Maxitrol eye drops	1-2 drops	Every 6 h
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Ear Medications

- Analgesic

Otocalm or Otal ear drops	1-2 drops	Every 6 h
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- Wax softeners

Remowax or Ear wax ear drops	1-2 drops	Every 6 h
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- Antibiotics

Otoxin or Otophenicol ear drops	1-2 drops	Every 6 h
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- Corticosteroids+ Antibiotics

Dexatrol E/E drops	1-2 drops	Every 6 h
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Topical Medication

***Protective agent**

- *Zinc olive lotion*
- *Baby cream*

***Soothing agent**

- *Calamyl lotion*
- *Calamine lotion*

***Topical Antibiotics**

- *Garamycin ointment*
- *Fucidin cream*

***Topical Antifungals**

- *Daktarin cream*
- *Miconaz cream*
- *Candistan cream*
- *Mycostatin baby cream*

***Topical antiparasitic**

- *Scabine lotion or cream 1%*
- *Licid , No lice lotion*

***Topical Corticosteroids**

1. Mild to Moderate

- **Dermatop cream**
- **Perderm cream**
- **Hydrocortison cream**

2. Strong

- **Betaderm cream**
- **Betnovate cream**
- **Elecon cream**

3. Steroids and Antimicrobial combinations

➤ Hydrocortisone + Miconazole

- **Daktacort cream**

➤ Betamethasone + Miconazole + Neomycin

- **Polyderm cream**

➤ Betamethasone + Clioquinol + Gentamicin + Chlorocresol

- **Quadriderm cream**

***Burns Preparations**

- **Dermazin cream**

***Oral Analgesics**

- **Dentinox teething gel**
- **Oracure gel**
- **Dentocalm paint**
- **BBC spray**

Miscellaneous drugs

Immulant syrup.(90mg/5ml)	5-10 cm	Every 12h
Immulant cap.(200mg)	1 cap	Every 12h
Hepaticum syrup.(50 mg/5ml)	Wt/2 cm	Every 12h
Digestin syrup	1-3 years → 2.5 cm 3-12 years → 5 cm	Every 8 h
Uripan syrup. (5mg/5ml) or tab. (5mg)	5-10 cm	B4 sleeping
Ursogall syrup(250 mg/ 5ml)	Wt/2 cm	Every 12h
Lacteol forte Sachets	0.5-1 sach +5cm sterile water	Every 12h
Cholestran Sachets	+ 10 cm sterile water→ Wt cm	Every 12h
Folic acid tab	1/2 tab + 12 cm sterile water → Wt/3 cm	2 times /week
L-Carnitine drops 300 mg/ml	1/4 droper /kg	Once daily

Blood products

Packed RBCs	5 – 20 ml/kg	Every 24 h
Fresh Frozen Plasma	10 – 20 ml/kg	Every 24 h Every 12 h in DIC
Platelets	5 – 10 ml/kg	Every 24 h
Cryoprecipitate	5 – 10 ml/kg	
IVIG 1 gm 2.5gm	500 – 900 mg/kg over 3 h	After 24 h if needed